



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0654.0630002	APPLICATION NO. 09/069,847
	APPLICANT HAN <i>et al.</i>	
	FILING DATE April 30, 1998	GROUP 1634

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL AK	AA1	4,683,194	07/28/1987	Saiki <i>et al.</i>	435	6	03/28/1985
	AB1	4,683,195	07/28/1987	Mullis <i>et al.</i>	435	6	02/07/1987
	AC1	4,683,202	07/28/1987	Mullis <i>et al.</i>	435	91	10/25/1985
	AD1	4,876,187	10/24/1989	Duck <i>et al.</i>	435	6	12/05/1985
	AE1	4,996,143	02/26/1991	Heller <i>et al.</i>	435	6	04/13/1990
	AF1	5,011,769	04/30/1991	Duck <i>et al.</i>	435	6	04/29/1988
	AG1	5,538,848	07/23/1996	Livak <i>et al.</i>	435	6	11/16/1994
	AH1	5,723,591	03/03/1998	Livak <i>et al.</i>	536	22.1	11/15/1995
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
M	AL1	WO 89/09284	10/05/1989	WIPO			Yes
							No
N	AM1	WO 89/09835	10/19/1989	WIPO			Yes
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	AN						Yes
							No
	AO						Yes
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	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Beecham, J.M., <i>et al.</i> , "Global And Target Analysis of Complex Decay Phenomena," <i>Anal. Instrum.</i> 14(384):379-402 (1985)
	AS	1	Brown, P.O., <i>et al.</i> , "Retroviral integration: Structure of the initial covalent product and its precursor, and a role for the viral IN protein," <i>Proc. Natl. Acad. Sci. USA</i> 86:2525-2529 (1989)
	AT	1	Brumbaugh, J.A., <i>et al.</i> , "Continuous, on-line DNA sequencing using oligodeoxynucleotide primers with multiple fluorophores," <i>Proc. Natl. Acad. Sci. USA</i> 85:5610-5614 (1988)




EXAMINER	DATE CONSIDERED
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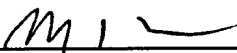
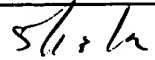
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	2	Bushman, F.D., <i>et al.</i> , "Activities of human immunodeficiency virus (HIV) integration protein <i>in vitro</i> : Specific cleavage and integration of HIV DNA," <i>Proc. Natl. Acad. Sci. USA</i> 88:1339-1343 (1991)
	AS	2	Cardullo, R.A., <i>et al.</i> , "Detection of nucleic acid hybridization by nonradioactive fluorescence resonance energy transfer," <i>Proc. Natl. Acad. Sci. USA</i> 85:8790-8794 (1988)
	AT	2	Carraway, K.L., <i>et al.</i> , "Visualization of Epidermal Growth Factor (EGF) Receptor Aggregation in Plasma Membranes by Fluorescence Resonance Energy Transfer," <i>J. Biol. Chem.</i> 264(15):8699-8707 (1989)

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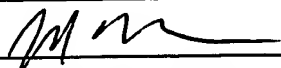
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

72	AR	3	Chen, R.F., and Scott, C.H., "Special Review: Atlas of Fluorescence Spectra and Lifetimes of Dyes Attached to Protein," <i>Anal. Lett.</i> 18(A4):393-421 (1985)
72	AS	3	Chollett, A., and Kawashima, E.H., "Biotin-labeled synthetic oligodeoxyribonucleotides: chemical synthesis and uses as hybridization probes," <i>Nucleic Acids Res.</i> 13(5):1529-1541 (1985)
72	AT	3	Chow <i>et al.</i> , "Reversal of Integration and DNA Splicing Mediated by Integrase of Human Immunodeficiency Virus," <i>Science</i> 255:723-726 (1992)

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	AP						Yes No

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	AR	<u>4</u>	Chu, B.C.F., and Orgel, L.E., "Laboratory Methods: Detection and Specific DNA Sequences With Short Biotin-Labeled Probes," <i>DNA</i> 4(4):327-331 (1985)
	AS	<u>4</u>	Clavel, F., <i>et al.</i> , "Genetic recombination of Human Immunodeficiency Virus," <i>J. Virol.</i> 63(3):1455-1459 (1989)
	AT	<u>4</u>	Clegg, R.M., <i>et al.</i> , "Fluorescence Resonance Energy Transfer Analysis of the Structure of the Four-Way DNA Junction," <i>Biochem.</i> 31:4846-4856 (1992)

EXAMINER		DATE CONSIDERED	5/10/98
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	AP						Yes No

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	AR	5	Connolly, B.A., "The synthesis of oligonucleotides containing a primary amino group at the 5'-terminus," <i>Nucleic Acids Res.</i> 15(7):3131-3139 (1987)
	AS	5	Conrad, R.H., and Brand, L., "Intramolecular Transfer of Excitation from Tryptophan to 1-Dimethylaminonaphthalene-5-sulfonamide in a Series of Model Compounds," <i>Biochemistry</i> 7(2):777-787 (1968)
	AT	5	Cooper, J.P., and Hagerman, P.J., "Analysis of Fluorescence Energy Transfer in Duplex and Branched DNA Molecules," <i>Biochemistry</i> 29:9261-9268 (1990)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Craigie, R., <i>et al.</i> , "The IN Protein of Moloney Murine Leukemia Virus Processes the Viral DNA Ends and Accomplishes Their Integration In Vitro," <i>Cell</i> 62:829-837 (1990)
	AS	6	Craigie, R., <i>et al.</i> , "A rapid <i>in vitro</i> assay for HIV DNA integration," <i>Nucleic Acids Res.</i> 19(10):2729-2734 (1991)
	AT	6	Donehower, L.A., <i>et al.</i> , "A mutant murine leukemia virus with a single missense codon <i>pol</i> is defective in a function affecting integration," <i>Proc. Natl. Acad. Sci. USA</i> 81:6461-6465 (1984)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	Z	Dreyer, G.B., and Dervan, P.B., "Sequence-specific cleavage of single stranded DNA: Oligodeoxynucleotide-EDTA•Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> 82:968-972 (1985)
AS	Z	Engelman, A., <i>et al.</i> , "HIV-1 DNA Integration: Mechanism of Viral DNA Cleavage and DNA Strand Transfer," <i>Cell</i> 67:1211-1221 (1991)
AT	Z	Forster, V.T., "Zwischenmolekulare Energiewanderung und Fluoreszenz," <i>Ann. Phys. (Leipzig)</i> 2:55-75 (1948)

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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Freifelder, D., Molecular Biology, Second Edition, Jones and Bartlett Publishers, Boston, Massachusetts, pp. 138 (1983)
	AS	8	Fujiwara, <i>et al.</i> , "Retroviral DNA Integration: Structure of an Integration Intermediate," <i>Cell</i> 54:497-504 (1988)
	AT	8	Fujiwara, T., <i>et al.</i> , "Integration of mini-retroviral DNA: A cell-free reaction for biochemical analysis of retroviral integration," <i>Proc. Natl. Acad. Sci. USA</i> 86:3065-3069 (1989)

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DATE CONSIDERED 5/13/91

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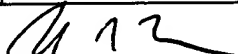
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	AM						Yes No
	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AL	AR	2	Ghosh, S.S., <i>et al.</i> , "Real time kinetics of restriction endonuclease cleavage monitored by fluorescence resonance energy transfer," <i>Nucleic Acids Res.</i> 22:3155-3159 (1994)
AL	AS	2	Gingeras, <i>et al.</i> , "A spectrofluorometric method for measurement of restriction endonuclease activity based on the fluorescence polarization," <i>J. Biol. Chem. Suppl.</i> 17(C):173, Abstract No. K304 (February 1993)
AL	AT	2	Glasner, <i>et al.</i> , "Fast quantitative assay of sequence-specific endonuclease activity based on DNA sequencer technology," <i>Biol. Chem.</i> 373:1223-1225 (December 1992)

EXAMINER		DATE CONSIDERED 5/7/92
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	10	Glazer, A.N., <i>et al.</i> , "A stable double-stranded DNA-ethidium homodimer complex: Application to picogram fluorescence detection of DNA in agarose gels," <i>Proc. Natl. Acad. Sci. USA</i> 87:3851-3855 (1990)
	AS	10	Grandgenett, D.P., <i>et al.</i> , "Unraveling Retrovirus Integration," <i>Cell</i> 60:3-4 (1990)
	AT	10	Hippenmeyer, P.J., <i>et al.</i> , "Requirement of Avian Retrovirus pp32 DNA Binding Protein Domain for Replication," <i>Virology</i> 137:358-370 (1984)

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	AP						Yes No

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7m	AR	11	Jablonski, E., <i>et al.</i> , "Preparation of oligonucleotide-alkaline phosphatase conjugates and their use as hybridization probes," <i>Nucleic Acids Res.</i> 14(15):6115-6128 (1986)
12	AS	11	Jeltsch, A., <i>et al.</i> , "A Fast and Accurate Enzyme-Linked Immunosorbent Assay for the Determination of the DNA Cleavage Activity of Restriction Endonucleases," <i>Anal. Biochem.</i> 213:234-240 (1993)
12	AT	11	Katz, R.A., <i>et al.</i> , "Requirement for a conserved serine in both processing and joining activities of retroviral integrase," <i>Proc. Natl. Acad. Sci. USA</i> 89:6741-6745 (1992)

EXAMINER	<i>M 12</i>	DATE CONSIDERED	5/3/98
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
1A	AR	12	Katzman, M., <i>et al.</i> , "The Avian Retroviral Integration Protein Cleaves the Terminal Sequences of Linear Viral DNA at the In Vivo Sites of Integration," <i>J. Virol.</i> 63(12):5319-5327 (1989)
12	AS	12	Knutson, J.R., <i>et al.</i> , "Simultaneous Analysis of Multiple Fluorescence Decay Curves: A Global Approach," <i>Chem. Phys. Lett.</i> 102(6):501-507 (1983)
12	AT	12	Lee, S.P., <i>et al.</i> , "A Fluorometric Assay for DNA Cleavage Reactions Characterized with <i>Bam</i> HI Restriction Endonuclease," <i>Anal. Biochem.</i> 220:377-383 (1994)

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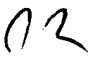

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	AP						Yes No

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	AR	<u>13</u>	Lee, S.P., <i>et al.</i> , "Characterization of endonucleolytic activity of HIV-1 integrase using a fluorogenic substrate," <i>Anal. Biochem.</i> 227:295-301 (1995)
	AS	<u>13</u>	Matayoshi, E.D., <i>et al.</i> , "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer," <i>Science</i> 247:954-958 (1990)
	AT	<u>13</u>	Murchie, A.I.H., <i>et al.</i> , "Fluorescence energy transfer shows that the four-way DNA junction is a right-handed cross of antiparallel molecules," <i>Nature</i> 341:763-766 (1989)




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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>14</u>	Ofengand, J., <i>et al.</i> , "Use of photochemically induced cross-linking as a conformational probe of the tertiary structure of certain regions in transfer ribonucleic acid," <i>Biochem.</i> 12:1977-1984 (1973)
	AS	<u>14</u>	Panganiban, A.T., <i>et al.</i> , "The retrovirus <i>pol</i> gene encodes a product required for DNA integration: Identification of a retrovirus <i>int</i> locus," <i>Proc. Natl. Acad. Sci. USA</i> 81:7885-7889 (1984)
	AT	<u>14</u>	Ruth, J.L., <i>et al.</i> , "Linker Arm Nucleotide Analogs Useful in Oligonucleotide Synthesis," <i>DNA</i> 4:93 (1985)

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0654.0630002	APPLICATION NO. 09/069,847
	APPLICANT HAN <i>et al.</i>	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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AR	15	Ruth, J., <i>et al.</i> , "DNA Affinity Supports Using Modified Oligonucleotides Attached to Nylon Membranes, <i>Fed. Proc.</i> 44:1622, Abstract 7088 (1985)
AS	15	Rychlik, W., and Rhoads, R.E., "A computer program for choosing optimal oligonucleotides for filter hybridization, sequencing and <i>in vitro</i> amplification of DNA," <i>Nucleic Acids Res.</i> 17(21):8543-8551 (1989)
AT	15	Schwartzberg, P., <i>et al.</i> , "Construction and Analysis of Deletion Mutations in the <i>pol</i> Gene of Moloney Murine Leukemia Virus: A New Viral Function Required for Productive Infection," <i>Cell</i> 37:1043-1052 (1984)

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<i>AM</i>	AR	<u>16</u>	Sherman, P.A., and Fyfe, J.A., "Human immunodeficiency virus integration protein expressed in <i>Escherichia coli</i> possesses selective DNA cleaving activity," <i>Proc. Natl. Acad. Sci. USA</i> 87:5119-5123 (1990)
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<i>AM</i>	AT	<u>16</u>	Spencer, R.D., and Weber, G., "Influence of Brownian Rotations and Energy Transfer upon the Measurements of Fluorescence Lifetime," <i>J. Chem Phys.</i> 52(4):1654-1663 (1970)

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112	AR	17	Stryer, L., and Haugland, R.P., "Energy transfer: a spectroscopic ruler," <i>Proc. Natl. Acad. Sci. USA</i> 58:719-726 (1967)
12	AS	17	Stryer, L., "Fluorescence energy transfer as a spectroscopic ruler," <i>Ann. Rev. Biochem.</i> 47:819-846 (1978)
12	AT	17	Suggs, S.V., <i>et al.</i> , "Use of synthetic Oligodeoxyribonucleotides for the isolation of specific cloned DNA sequences," in <i>ICN-UCLA Symposium in Development of Biology Using Purified Genes</i> , Brown, ed., Academic Press, Inc., New York, pp. 683-693 (1981)

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	AR	<u>18</u>	Takahashi, M., <i>et al.</i> , "Use of a fluorescent DNA analog for fluorometric detection of DNase activity," <i>Anal. Biochem.</i> 198:246-249 (1991)
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	AT	<u>18</u>	Terry, R., <i>et al.</i> , "Properties of Avian Sarcoma-Leukosis Virus pp32-Related <i>pol</i> -Endonucleases Produced in <i>Escherichia coli</i> ," <i>J. Virol.</i> 62(7):2358-2365 (1988)

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712	AR	19	Varmus, H., and Brown, P., "Retroviruses," in <i>Mobile DNA</i> , Berg, D.E., and Howe, M.M., eds., American Society for Microbiology, Washington, D.C., pp. 53-108 (1989)
92	AS	19	Waters, T.R., and Connolly, B.A., "Continuous Spectrophotometric Assay for Restriction Endonucleases Using Synthetic Oligodeoxynucleotides and Based on the Hyperchromic Effect," <i>Anal. Biochem.</i> 204:204-209 (1992)
02	AT	19	Wilson, G.A., and Young, F., "Isolation of a Sequence-specific Endonuclease (<i>Bam</i> I) form <i>Bacillus amyloliquefaciens</i> H," <i>J. Mol. Biol.</i> 97:123-125 (1975)

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AR	20	Wu, P., and Brand, L., "Resonance Energy Transfer: Methods and Applications," <i>Anal. Biochem.</i> 218:1-13 (1994)
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